

Serial Number: 09/804,733C

ENTERED

- ☐ Changed a file from non-ASCII to ASCII
- ☐ Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- ☐ Edited a format error in the Current Application Data section, specifically: \_\_\_\_\_
- ☐ Edited the Current Application Data section with the actual current number. The number inputted by the applicant was ☐ the prior application data; or ☐ other \_\_\_\_\_
- ☐ Added the mandatory heading and subheadings for "Current Application Data".
- ☐ Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- ☐ Changed the spelling of a mandatory field (the headings or subheadings), specifically: \_\_\_\_\_
- ☐ Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were: \_\_\_\_\_
- ☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited: \_\_\_\_\_
- ☐ Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- ☐ Inserted colons after headings/subheadings. Headings edited included: \_\_\_\_\_
- ☐ Deleted extra, invalid, headings used by an applicant, specifically: \_\_\_\_\_
- ☐ Deleted: ☐ non-ASCII "garbage" at the beginning/end of files; ☐ secretary initials/filename at end of file; ☐ page numbers throughout text; ☐ other invalid text, such as \_\_\_\_\_
- ☐ Inserted mandatory headings, specifically: \_\_\_\_\_
- ☐ Corrected an obvious error in the response, specifically: \_\_\_\_\_
- ☐ Edited identifiers where upper case is used but lower case is required, or vice versa.
- ☐ Corrected an error in the Number of Sequences field, specifically: \_\_\_\_\_
- ☐ A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- ☐ Deleted **ending** stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected: \_\_\_\_\_
- ☒ Other: Seq. 6 - corrected <222> response

\*Examiner: The above corrections must be communicated to the applicant in the first Office Action. DO NOT send a copy of this form. 3/1/95

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1600

## RAW SEQUENCE LISTING

DATE: 02/27/2003

PATENT APPLICATION: US/09/804,733C

TIME: 21:30:46

Input Set : N:\Cr4\02262003\I804733C.raw

Output Set: N:\CRF4\02272003\I804733C.raw

1 <110> APPLICANT: WANG, QI ET AL.  
 2 <120> TITLE OF INVENTION: RECOMBINANT PROTEINS CONTAINING REPEATING UNITS  
 3 <130> FILE REFERENCE: MONS:016US  
 C--> 4 <140> CURRENT APPLICATION NUMBER: US/09/804,733C  
 5 <141> CURRENT FILING DATE: 2001-03-13  
 6 <150> PRIOR APPLICATION NUMBER: PCT/US01/07957  
 7 <151> PRIOR FILING DATE: 2001-03-13  
 8 <160> NUMBER OF SEQ ID NOS: 29  
 9 <170> SOFTWARE: PatentIn Ver. 2.1  
 11 <210> SEQ ID NO: 1  
 12 <211> LENGTH: 5  
 13 <212> TYPE: PRT  
 14 <213> ORGANISM: Euthynnus pelamis  
 15 <400> SEQUENCE: 1  
 16       Leu Lys Pro Asn Met  
 17       1                   5  
 19 <210> SEQ ID NO: 2  
 20 <211> LENGTH: 4  
 21 <212> TYPE: PRT  
 22 <213> ORGANISM: Euthynnus pelamis  
 23 <400> SEQUENCE: 2  
 24       Lys Pro Asn Met  
 25       1  
 27 <210> SEQ ID NO: 3  
 28 <211> LENGTH: 4  
 29 <212> TYPE: PRT  
 30 <213> ORGANISM: Euthynnus pelamis  
 31 <400> SEQUENCE: 3  
 32       Val Val Tyr Pro  
 33       1  
 35 <210> SEQ ID NO: 4  
 36 <211> LENGTH: 15  
 37 <212> TYPE: DNA  
 38 <213> ORGANISM: Artificial Sequence  
 39 <220> FEATURE:  
 40 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic  
 41       Primer  
 42 <220> FEATURE:  
 43 <221> NAME/KEY: modified\_base  
 44 <222> LOCATION: (3)..(9)  
 45 <223> OTHER INFORMATION: N = A, C, G or T/U  
 46 <400> SEQUENCE: 4  
 W--> 47       ctnaarccna ayatg

15

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733C

DATE: 02/27/2003

TIME: 21:30:46

Input Set : N:\Crf4\02262003\I804733C.raw

Output Set: N:\CRF4\02272003\I804733C.raw

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49 <210> SEQ ID NO: 5
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51 <212> TYPE: DNA
52 <213> ORGANISM: Artificial Sequence
53 <214> FEATURE:
54 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
55     Primer
56 <220> FEATURE:
57 <221> NAME/KEY: modified_base
58 <222> LOCATION: (3)..(54)
59 <223> OTHER INFORMATION: N = A, C, G, or T/U
60 <400> SEQUENCE: 5
W--> 61      ctnaarccna ayatgctnaa rccnaayatg ctnaarccna ayatgctnaa rccnaayatg 60
62 <210> SEQ ID NO: 6
63 <211> LENGTH: 60
64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
66 <214> FEATURE:
67 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
68     Primer
69 <220> FEATURE:
70 <221> NAME/KEY: modified_base
71 <222> LOCATION: (7)..(58)
72 <223> OTHER INFORMATION: N = A, C, G or T/U
73 <400> SEQUENCE: 6
W--> 75      catrttnggy ttnagcatrt tnggyttngag catrttnggy ttnagcatrt tnggyttngag 60
77 <210> SEQ ID NO: 7
78 <211> LENGTH: 15
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
81 <214> FEATURE:
82 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
83     Primer
84 <220> FEATURE:
85 <221> NAME/KEY: modified_base
86 <222> LOCATION: (12)..(18)
87 <223> OTHER INFORMATION: N = A, C, G or T/U
88 <400> SEQUENCE: 7
W--> 89      aaagaattcc tnaarccnaa yatgc 25
91 <210> SEQ ID NO: 8
92 <211> LENGTH: 37
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
95 <214> FEATURE:
96 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
97     Primer
98 <220> FEATURE:
99 <221> NAME/KEY: modified_base
100 <222> LOCATION: (18)..(24)

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733C

DATE: 02-27/2003

TIME: 21:30:46

Input Set : N:\Cr4\02262003\I804733C.raw

Output Set: N:\CRF4\02272003\I804733C.raw

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101 <133> OTHER INFORMATION: N = A, C, G or T/U
102 <400> SEQUENCE: 8
W--> 103      aaagcggcgc ccatrttngg yttnagc      27
105 <110> SEQ ID NO: 9
106 <111> LENGTH: 21
107 <112> TYPE: DNA
108 <113> ORGANISM: Artificial Sequence
109 <210> FEATURE:
110 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
111      Primer
112 <400> SEQUENCE: 9
113      taatacgact cactataggg      20
115 <110> SEQ ID NO: 10
116 <111> LENGTH: 19
117 <112> TYPE: DNA
118 <113> ORGANISM: Artificial Sequence
119 <210> FEATURE:
120 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
121      Primer
122 <400> SEQUENCE: 10
123      cgatcaataa cgagtcggc      19
125 <110> SEQ ID NO: 11
126 <111> LENGTH: 48
127 <112> TYPE: DNA
128 <113> ORGANISM: Artificial Sequence
129 <210> FEATURE:
130 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
131      Primer
132 <220> FEATURE:
133 <211> NAME/KEY: modified_base
134 <212> LOCATION: (3)..(48)
135 <213> OTHER INFORMATION: N = A, C, G or T/U
136 <400> SEQUENCE: 11
W--> 137      gtngtntayc cngtngtnta yccngtngtn tayccngtng tntayccn      48
139 <110> SEQ ID NO: 12
140 <111> LENGTH: 48
141 <112> TYPE: DNA
142 <113> ORGANISM: Artificial Sequence
143 <210> FEATURE:
144 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
145      Primer
146 <220> FEATURE:
147 <211> NAME/KEY: modified_base
148 <212> LOCATION: (1)..(46)
149 <213> OTHER INFORMATION: N = A, C, G or T/U
150 <400> SEQUENCE: 12
W--> 151      ngggrtanacn acnggrtana cnacnggrta nacnacnggr tanacnac      48
153 <110> SEQ ID NO: 13
154 <111> LENGTH: 33

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,733C

DATE: 02-07-2003

TIME: 21:30:46

Input Set : N:\Crf4\02262003\I804733C.raw

Output Set: N:\CRF4\02272003\I804733C.raw

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155 <110> TYPE: DNA
156 <111> ORGANISM: Artificial Sequence
157 <112> FEATURE:
158 <113> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
159     Primer
160 <114> FEATURE:
161 <115> NAME/KEY: modified_base
162 <116> LOCATION: (12)..(33)
163 <117> OTHER INFORMATION: N = A, C, G or T/U
164 <400> SEQUENCE: 13
W--> 165     aaaggatccg tngtntaycc ngtngtntay ccn                 33
167 <110> SEQ ID NO: 14
168 <111> LENGTH: 36
169 <112> TYPE: DNA
170 <113> ORGANISM: Artificial Sequence
171 <114> FEATURE:
172 <115> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
173     Primer
174 <116> FEATURE:
175 <117> NAME/KEY: modified_base
176 <118> LOCATION: (10)..(31)
177 <119> OTHER INFORMATION: N = A, C, G or T/U
178 <400> SEQUENCE: 14
W--> 179     cccaagcttn ggrrtanacna cnggrrtanac nac                 33
181 <110> SEQ ID NO: 15
182 <111> LENGTH: 45
183 <112> TYPE: DNA
184 <113> ORGANISM: Artificial Sequence
185 <114> FEATURE:
186 <115> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
187     Primer
188 <116> FEATURE:
189 <117> NAME/KEY: modified_base
190 <118> LOCATION: (3)..(45)
191 <119> OTHER INFORMATION: N = A, C, G or T/U
192 <400> SEQUENCE: 15
W--> 193     gtnccncng tncncncgt nccncngtn ccncncngtnc cncn                 45
195 <110> SEQ ID NO: 16
196 <111> LENGTH: 45
197 <112> TYPE: DNA
198 <113> ORGANISM: Artificial Sequence
199 <114> FEATURE:
200 <115> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
201     Primer
202 <116> FEATURE:
203 <117> NAME/KEY: modified_base
204 <118> LOCATION: (1)..(43)
205 <119> OTHER INFORMATION: N = A, C, G or T/U
206 <400> SEQUENCE: 16

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PATENT APPLICATION: US/09/804,733C

TIME: 21:30:46

Input Set : N:\Crf4\02262003\I804733C.raw

Output Set: N:\CRF4\02272003\I804733C.raw

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W--> 207      ngngggnacn ggnggnacng gnggnacngg nggnacnggn ggnac
209 <210> SEQ ID NO: 17
210 <211> LENGTH: 36
211 <212> TYPE: DNA
212 <213> ORGANISM: Artificial Sequence
213 <214> FEATURE:
214 <215> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
215      Primer
216 <216> FEATURE:
217 <217> NAME/KEY: modified_base
218 <218> LOCATION: (12)..(36)
219 <219> OTHER INFORMATION: N = A, C, G or T/U
220 <400> SEQUENCE: 17

W--> 221      aaaggatccg tncncncngt nccncncngtn ccncn
223 <210> SEQ ID NO: 18
224 <211> LENGTH: 36
225 <212> TYPE: DNA
226 <213> ORGANISM: Artificial Sequence
227 <220> FEATURE:
228 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
229      Primer
230 <210> FEATURE:
231 <211> NAME/KEY: modified_base
232 <212> LOCATION: (10)..(34)
233 <213> OTHER INFORMATION: N = A, C, G or T/U
234 <400> SEQUENCE: 18

W--> 235      aataagcttn ggngggnacng gnggnacngg nggnac
237 <210> SEQ ID NO: 19
238 <211> LENGTH: 8
239 <212> TYPE: PRT
240 <213> ORGANISM: Artificial Sequence
241 <214> FEATURE:
242 <213> OTHER INFORMATION: Description of Artificial Sequence:m Synthetic
243      Peptide
244 <400> SEQUENCE: 19
245      Val Pro Pro Leu Lys Pro Asn Met
246      1 5
248 <210> SEQ ID NO: 20
249 <211> LENGTH: 48
250 <212> TYPE: DNA
251 <213> ORGANISM: Artificial Sequence
252 <214> FEATURE:
253 <213> OTHER INFORMATION: Description of Artificial Sequence: Synthetic
254      Primer
255 <220> FEATURE:
256 <211> NAME/KEY: modified_base
257 <212> LOCATION: (3)..(42)
258 <213> OTHER INFORMATION: N = A, C, G or T/U
259 <400> SEQUENCE: 20

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/09/804,733C

DATE: 02/27/2003  
TIME: 21:30:47

Input Set : N:\Crf4\02262003\I804733C.raw  
Output Set: N:\CRF4\02272003\I804733C.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:4; N Pos. 3,9  
Seq#:5; N Pos. 3,9,18,24,33,39,48,54  
Seq#:6; N Pos. 7,13,22,28,27,43,52,58  
Seq#:7; N Pos. 12,18  
Seq#:8; N Pos. 18,24  
Seq#:11; N Pos. 3,6,12,15,18,24,27,30,36,39,42,48  
Seq#:12; N Pos. 1,7,10,13,19,22,25,31,34,37,43,46  
Seq#:13; N Pos. 12,15,21,24,27,33  
Seq#:14; N Pos. 10,16,19,22,28,31  
Seq#:15; N Pos. 3,6,9,12,15,18,21,24,27,30,33,36,39,42,45  
Seq#:16; N Pos. 1,4,7,10,13,16,19,22,25,28,31,34,37,40,43  
Seq#:17; N Pos. 12,15,18,21,24,27,30,33,36  
Seq#:18; N Pos. 10,13,16,19,22,25,28,31,34  
Seq#:20; N Pos. 3,6,9,12,18,27,30,33,36,42  
Seq#:21; N Pos. 7,13,16,19,22,31,37,40,43,46  
Seq#:22; N Pos. 13,16,19,22,28,37,40,43,46,52  
Seq#:23; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82  
Seq#:25; N Pos. 3,6,9,15,18,21,24,30,39,42,45,51,54,57,60,66  
Seq#:26; N Pos. 7,13,16,19,22,28,31,34,43,49,52,55,58,64,67,70  
Seq#:27; N Pos. 13,16,19,25,28,31,34,40,49,52,55,61,64,67,70,76  
Seq#:28; N Pos. 19,25,28,31,34,40,43,46,55,61,64,67,70,76,79,82